



# IDEM Update CITES 40<sup>th</sup> Annual Environmental Symposium April 21, 2011

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# IDEM's Mission

## We Protect Hoosiers and Our Environment

IDEM's mission is to implement federal and state regulations to protect human health and the environment while allowing the environmentally sound operations of industrial, agricultural, commercial and government activities vital to a prosperous economy.



# How Does IDEM Protect Hoosiers and Our Environment?

- Develop regulations and issue permits to restrict discharges to the environment to safe levels.
- Inspect and monitor permitted facilities to ensure compliance with the permits.



# How Does IDEM Protect Hoosiers and Our Environment?

- Use compliance assistance and/or enforcement when people exceed their permit levels or violate regulations.
- Educate people on their environmental responsibilities.



# Performance Metrics April 2011

## Quality of Hoosiers' Environment

**% of Hoosiers in counties meeting air quality standards**

**% of CSO Communities with approved programs to prevent the release of untreated sewage**

**% of Hoosiers receiving water from facilities in compliance with safe drinking water standards**

	Result	Target	Comments	
% of Hoosiers in counties meeting air quality standards	99.99%	100%	80%	Muncie Lead—675 people
% of CSO Communities with approved programs to prevent the release of untreated sewage	95.4%	100%	20%	94+9 (103) out of 98+9 (108)
% of Hoosiers receiving water from facilities in compliance with safe drinking water standards	99.6%	99%	95%	

## Permitting Efficiency Total calendar days accumulated in issuing environmental permits, as determined by state statute

Land	28,809	66,565	86,864
Air	91,841	207,000	385,000
Water	70,760	48,000	200,000

\* Places emphasis on back logged permits

## Compliance Total percentage of compliance observations from regulated customers within acceptable compliance standards

Inspections	97.36%	97%	75%
Self reporting	94.82%	99%	95%
Continuous monitoring (COM)	99.72%	99.90%	99%

\* Tracks observations and not just inspections



# Performance Metrics June 2005

## Quality of Hoosiers' Environment

**% of Hoosiers in counties meeting air quality standards**

Result

Target

Comments

61%	100%	80%
4%	100%	20%

12 counties & 2,408,571 of 6,195,643 above standard

**% of CSO Communities with approved programs to prevent the release of untreated sewage**

75% by 2007 is goal

## Permitting Efficiency Total calendar days accumulated in issuing environmental permits, as determined by state statute

Land

100,013	66,565	86,864
511,000	207,000	385,000
301,000	48,000	200,000

Air

Water

\* Places emphasis on back logged permits

## Compliance Total percentage of compliance observations from regulated customers within acceptable compliance standards

Inspections

95.46%	97%	75%
97.11%	99%	95%
99.19%	99.90%	98.95%

Self reporting

Continuous monitoring (COM)

\* Tracks observations and not just inspections

## Organizational Transformation Budgetary agency dollars spent on key outside contracts for core agency functions.

Dollars spent on outside services per year

\$6,179,367	\$0	\$3,447,017
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# Discussion Topics

- IDEM Staffing Levels.
- 25 Years of Progress
  - Air
  - Water
  - Land
- Region 5 Permitting Program Comparisons
- Major Goals for 2011



# IDEM Staffing Levels

YEAR	2004	2005	2006	2007	2008	2009	2010	Current	Target
Actual FTE	895	918	915	927	954	950	891	860	902



# 25 Years of Progress



- **Air Quality:**

- At the end of 2009, for the first time since ambient air quality standards were developed, all of Indiana met all of the health based ambient air quality standards (including the 0.075 ozone standard).
- During 2010, the new 0.15 microgram per cubic meter lead standard became effective and almost 700 people may be breathing air above that new standard. IDEM is working to make sure that those Hoosiers have clean air to breathe.



# 25 Years of Progress

- **Water Quality Improvements:**
  - IDEM has assessed the water quality in 83% of Indiana's waters to identify areas in need of improvement.
  - IDEM has used the 319 grant process to fund watershed improvement projects over the past five years that have prevented annual discharges of:
    - 500,508,000 pounds of sediment
    - 546,871 pounds of nitrogen
    - 332,270 pounds of phosphorus



# 25 Years of Progress



- **Water Quality Improvements:**

IDEM has documented the water quality improvements from these program efforts and removed the watersheds listed on the next page from the list of impaired waters.



# 25 Years of Progress

- **Water Quality Improvements:**

- Big Walnut Creek

[http://www.in.gov/idem/nps/files/watershed\\_success\\_epa\\_bigwalnut.pdf](http://www.in.gov/idem/nps/files/watershed_success_epa_bigwalnut.pdf)

- Clifty Creek

[http://www.in.gov/idem/nps/files/watershed\\_success\\_epa\\_clifty.pdf](http://www.in.gov/idem/nps/files/watershed_success_epa_clifty.pdf)

- Pigeon Creek

[http://www.in.gov/idem/nps/files/watershed\\_success\\_epa\\_pigeon.pdf](http://www.in.gov/idem/nps/files/watershed_success_epa_pigeon.pdf)



# 25 Years of Progress

- **Administratively extended NPDES permits.**
  - In 2005, there were 263 administratively extended NPDES permits
  - Two of those 263 remain to be issued:
    - ArcelorMittal Indiana Harbor East
    - ArcelorMittal Indiana Harbor West



# 25 Years of Progress

- **Water Quality: Combined Sewer Overflows**
  - All 97 State lead CSO Communities and 5 of the 10 Federal lead Communities have entered legal agreements to address their CSO issues.
  - We are working with USEPA to speed the progress on the remaining 5 Federal lead CSO communities.
  - At least 25 of the CSO communities have completed their projects to address the release of untreated sewage during rain events.



# 25 Years of Progress



- **Cleanup of Contaminated Sites:**
  - Indiana has a fully funded Excess Liability Trust Fund to pay for petroleum clean ups from currently operated tanks.
  - Indiana will issue an updated RISC Closure Guidance Document this year.
  - Exposure to hazardous constituents is under control at 58 of Indiana’s 66 RCRA Corrective Action sites, while Groundwater contamination is under control at 55 of those 66 sites.



# 25 Years of Progress

- **Cleanup of Contaminated Sites:**
  - Since 2005, Indiana has cleaned up more than 2,500,000 illegally dumped waste tires.
  - All 1,269 tons of VX Agent stored at the Newport Chemical Agent Facility since 1969 has been safely destroyed. VX destruction started in May of 2005 and was completed in August 2008.



# Agency Initiatives

- **Electronic Permits and Reporting**
  - Virtual File Cabinet—electronic filing system with over 62,000,000 pages now online, about 500 boxes of old documents not yet in the system.
  - TEMPO—Enterprise wide electronic integration of all IDEM information—part of the infrastructure to receive and process electronic permit applications and reports—scheduled to be fully operational in 2012.

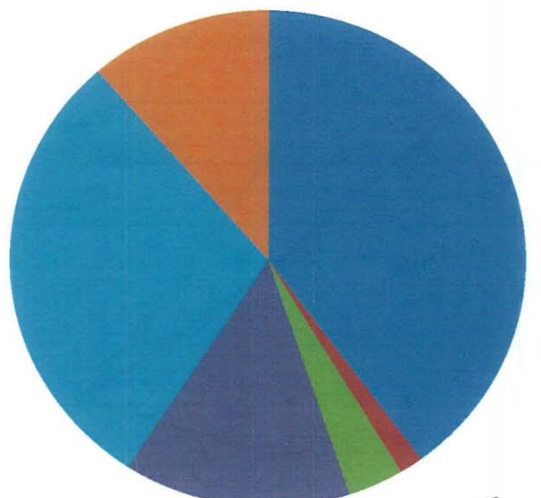


Comparison of Region 5 States  
Permitting Program Status  
compiled by U.S. EPA Region 5 for  
March 10, 2011 State  
Environmental Directors Meeting



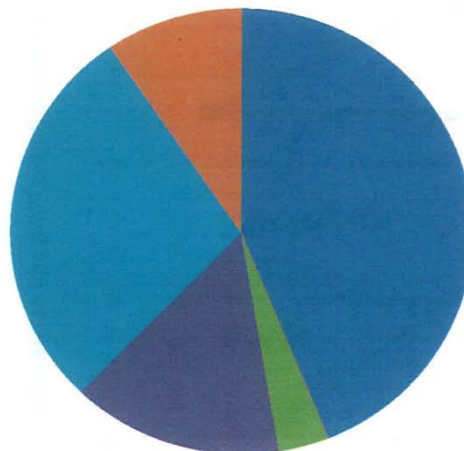
# Region 5 Title V Renewal Permit Backlog

Backlog as of January 1, 2011



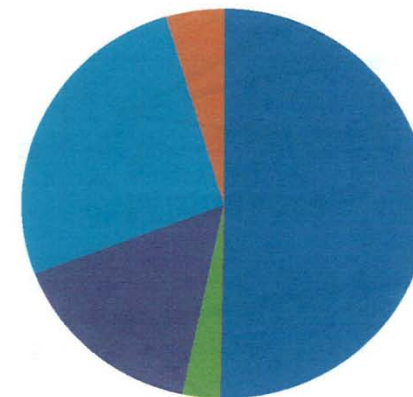
673	650	385
■ Illinois 422	■ Indiana 16	■ Michigan 37
■ Minnesota 151	■ Ohio 312	■ Wisconsin 122
295	697	467

End of Calendar Year 2011



■ Illinois 416	■ Indiana 0
■ Michigan 34	■ Minnesota 141
■ Ohio 267	■ Wisconsin 92

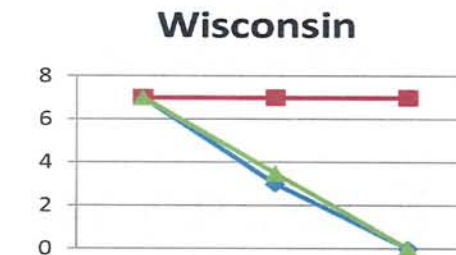
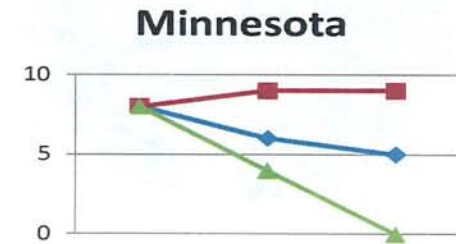
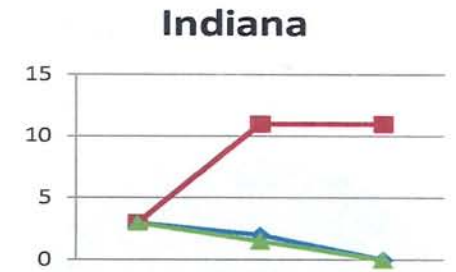
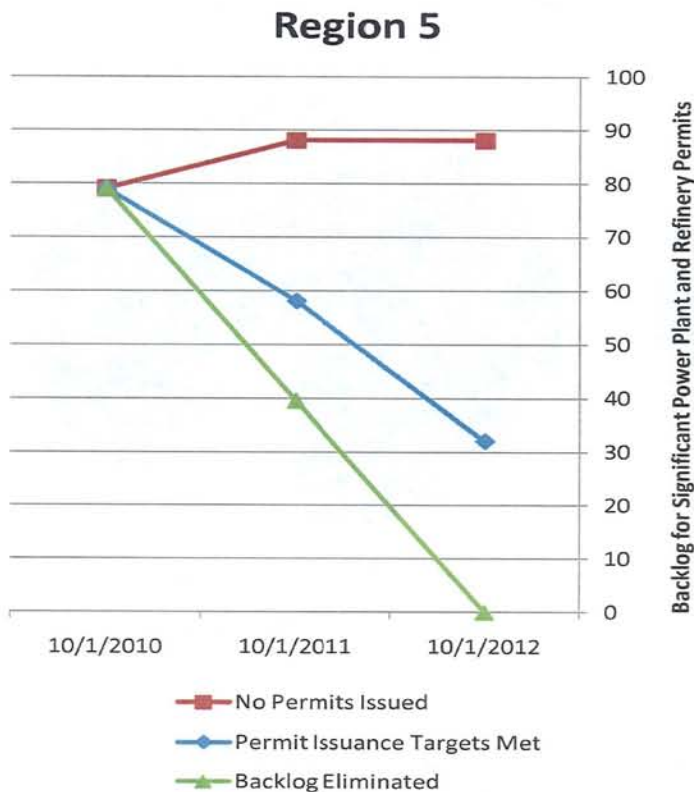
End of Calendar Year 2012



■ Illinois 398	■ Indiana 0
■ Michigan 24	■ Minnesota 126
■ Ohio 207	■ Wisconsin 37

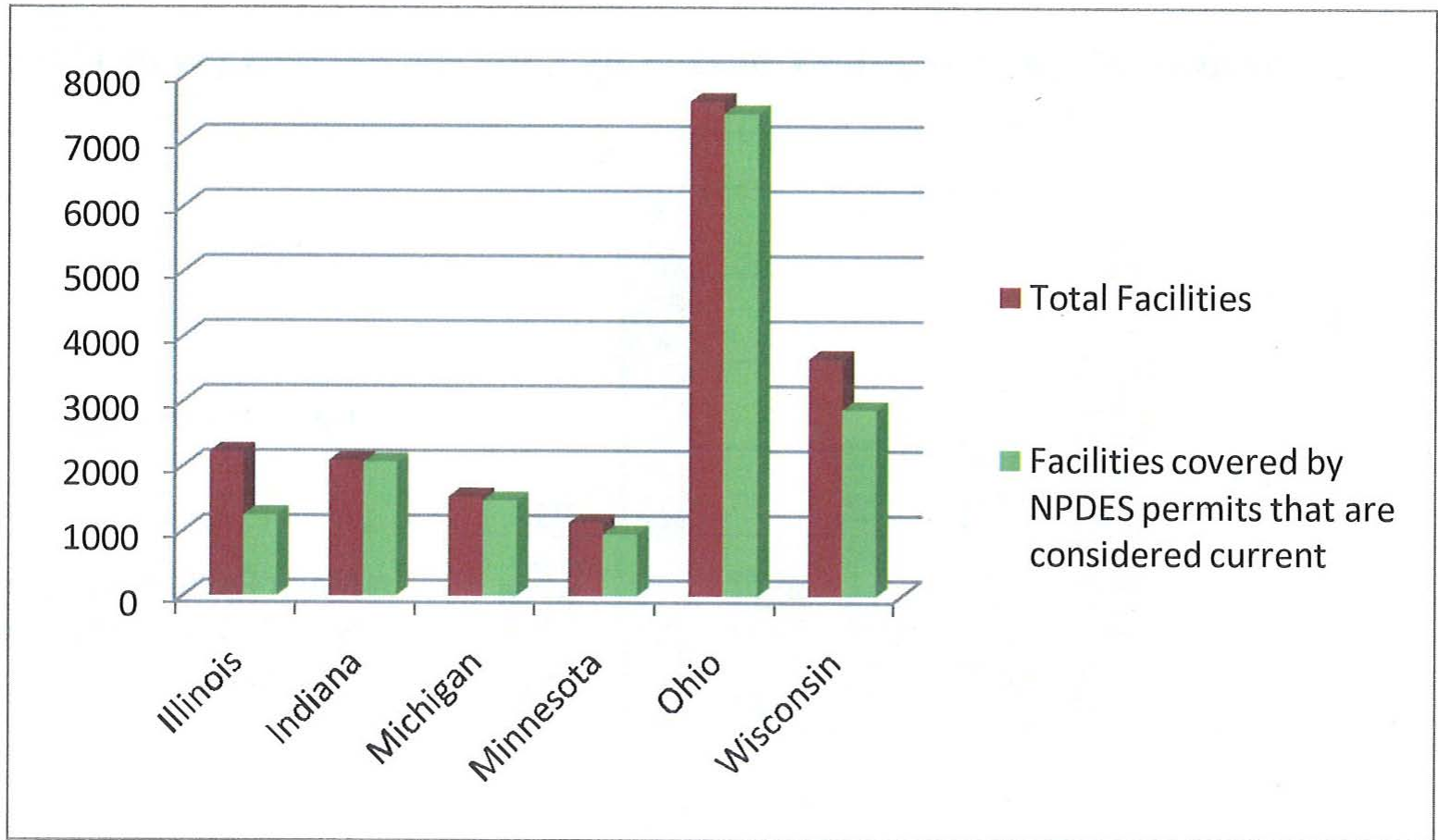


# Significant Power Plant and Refinery Permits



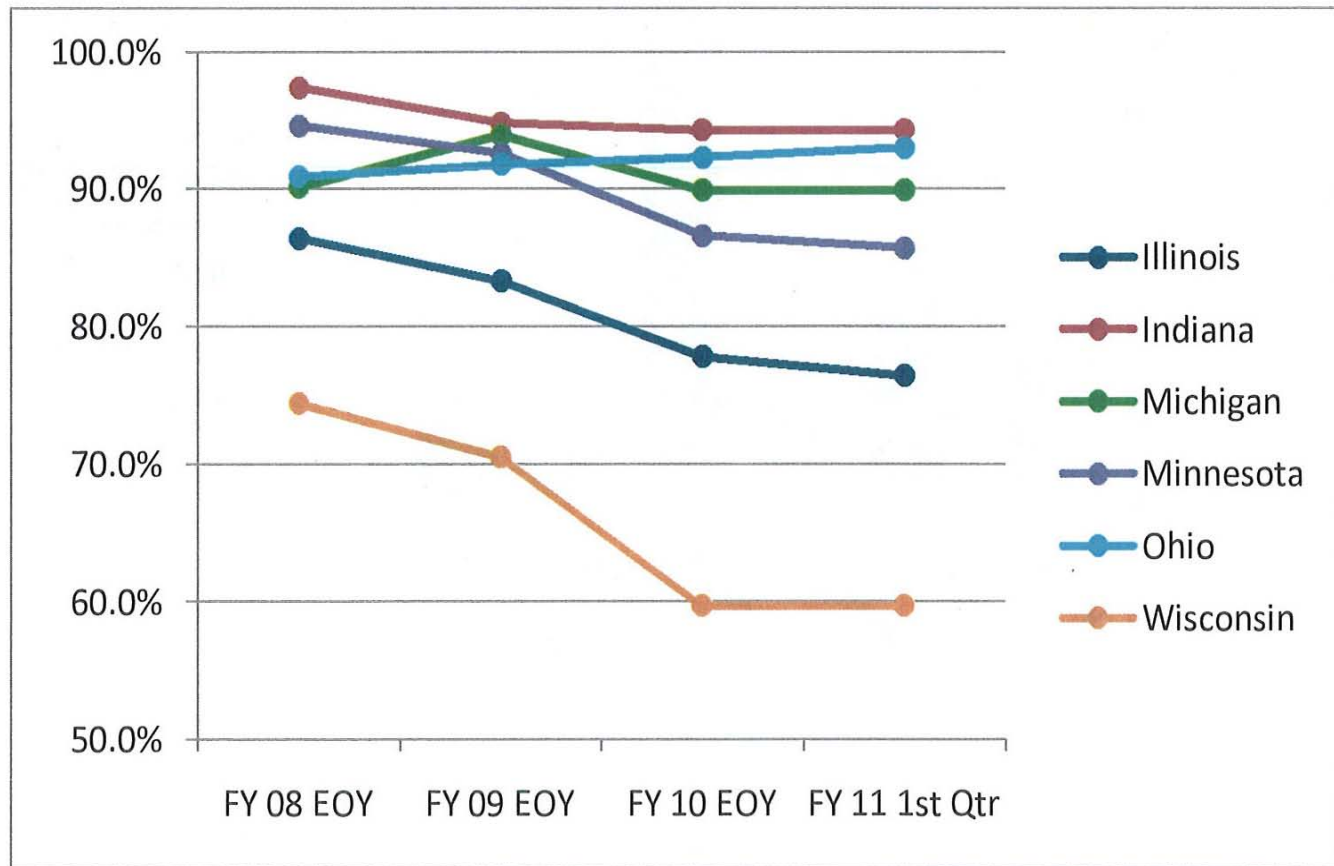


### Status of Facilities Covered by Current Permits (as of 12/31/10)



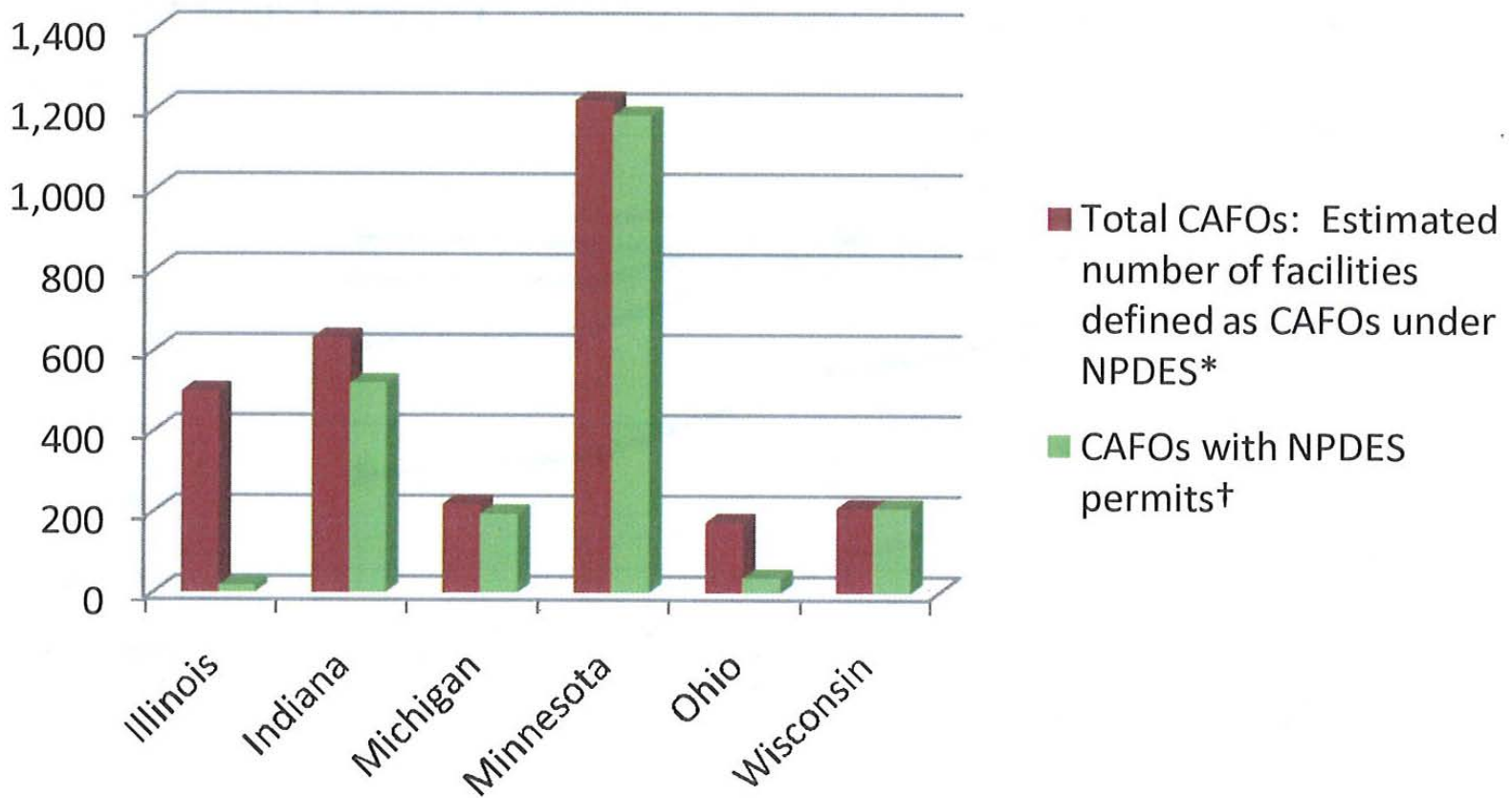


### Major Facilities Covered by Current Permits Trend Since FY 08





## Status of State CAFO Universe with Permits (as of 3/2/11)





# 2011 IDEM Major Goals

- Complete Antidegradation Rulemaking Process.
  - Draft rule available for public review April 2011.
  - WPCB Preliminary Adoption Meeting July 2011?
- Obtain U.S. EPA approval of attainment designations for PM<sub>2.5</sub> for all of Indiana.
- Complete CAFO/CFO Rulemaking Process.
- Adopt RISC Closure Guidance as an NPD.



# Questions?

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